

Serial No. 10/701,335  
312 Amendment March 31, 2008  
Notice of Allowance dated March 7, 2008

**RECEIVED**  
**CENTRAL FAX CENTER**  
**MAR 31 2008**

**Amendments to the Specification:**

Please replace the paragraphs beginning at page 3, lines 2-29, with the following rewritten paragraphs:

One aspect of the present invention relates to a system for registering two dimensional image data to intra-operatively digitized landmarks obtained during a joint arthroplasty procedure on a patient having a joint in need of such a procedure that includes a surgical navigation system capable of determining a position and an orientation of an object within a working volume, including a central processing unit, a display, a memory unit and a storage unit. The system also has ~~a first circuit to import~~ means for importing the two dimensional image data for the joint into the memory unit; and ~~a second circuit to perform~~ means for performing an intra-operative anatomical survey of the joint and a limb associated with the joint to digitize selected landmarks and ~~to locate~~ determining the mechanical axis of the limb. Further, the system includes ~~a third circuit to register~~ means for registering the two dimensional image data to the mechanical axis and ~~display the~~ displaying a registered image of the mechanical axis and the two dimensional image data on the display; and ~~a fourth circuit to assist~~ means for assisting in guiding a cutting jig into position within the joint based on the landmarks while showing the registered two dimensional image data in relation to the ~~mechanical axis of the limb landmarks~~ mechanical axis, wherein the position and the orientation of the cutting jig can be tracked by the surgical navigation system.

A further aspect of the present invention relates to a method for registering two dimensional image data to intra-operatively digitized landmarks obtained during a joint arthroplasty procedure on a patient having a joint in need of such a procedure, the method comprising the steps of: importing the two dimensional image data for the ~~knee~~ joint into memory of a surgical navigation system capable of determining the position and orientation of an object within a working volume wherein the surgical navigation system includes a display, a central processing unit and storage; performing an anatomical survey of the joint and an associated limb; digitizing selected landmarks based on the anatomical survey; ~~determining~~ determining a mechanical axis for the limb based on the digitized landmarks, registering the image data to the ~~digitized landmarks~~ mechanical axis, and displaying the registered two dimensional image data and mechanical axis on the display; and guiding a cutting jig into position within the joint using the surgical navigation system based on the landmarks.